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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/524,970	08/18/2005	Tatsuro Irimura	62870(70232)	1465
21874	7590 11/16/2006		EXAMINER	
EDWARDS & ANGELL, LLP			LIU, SUE XU	
P.O. BOX 55874 BOSTON, MA 02205			ART UNIT	PAPER NUMBER
200101., 1	02200		1639 DATE MAILED: 11/16/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

y	Application No.	Applicant(s)		
,	10/524,970	IRIMURA ET AL.		
Office Action Summary	Examiner	Art Unit		
•	Sue Liu	1639		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of the provision of the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on <u>08 July</u> 2a) This action is FINAL . 2b) This 3) Since this application is in condition for alloward closed in accordance with the practice under Expression in the Expression in	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 1-16 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-16 are subject to restriction and/or experience. Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acceptable and on is/are: a)	wn from consideration. election requirement.	Examiner.		
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte		

DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 1-5, drawn to a lectin library comprising at least one kind of lectin.

Group 2, claim(s) 6-10, drawn to a method of discriminating glycoprotiens or cells.

Group 3, claim(s) 11-14, drawn to a diagnostic kit comprising a lectin library and other reagents.

Group 4, claim(s) 15 and 16, drawn to an apparatus for fractionation of glycoproteins or cells.

2. The inventions listed as Groups 1-4 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical feature (i.e. a lectin library) of Group 1 is known in the prior art. Yim et al (PNAS. Vol. 98: 2222-2225; 2/27/2001; cited in the IDS filed 8/18/2005: cite No. CC) teach a lectin library useful for identify different cells (see the entire document). The reference teaches a library mutant lectin that can bind to erythrocytes, and be useful for discriminate a variety of cell types (Abstract of the reference), which reads on the lectin library claimed in the

instant claims. Therefore, Groups 1-4 are not so linked by the same or a corresponding special technical feature as to form a single inventive concept. Thus, the inventions lack unity.

Species Election

3. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

Applicants are requested to further elect a single ultimate species for <u>each</u> of the following:

- a. A single specific "kind" of lectin. (For Groups 1-4)
- b. Applicants are also requested to specify the specific entity for which the elected lectin (from the above selection) has affinity (see Claim 1). If Applicants elect "pseudocells" or "cells", applicants are requested to further elect either "erythrocytes" <u>OR</u> "glycophorin". (For Groups 1-4)
- c. A single specific type of cell that is discriminated (see Claims 5 and 10). (For Groups 1-4).
- d. A single specific method selected from the followings: discriminating glycoproteins, discriminating cells, diagnosing serum, diagnosing cells, fractionating glycoproteins, **OR** fractionating cells (see Claim 6). (For Group 2)
- e. A single specific species of "another substrance" (see Claim 7). (For Groups 2 and 3)
- 4. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special

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technical features for the following reasons: The species are distinct, each from the other

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structurally and functionally, because their modes of action are different. Therefore, the species

have different issues regarding patentability and represent patentable distinct subject matter.

5. The claims are deemed to correspond to the species listed above in the following manner:

Please see the above species selection for correspondence between the claims and the species

selection.

The following claim(s) are generic: 1, 6, 11 and 15.

6. Applicant is advised that the reply to this requirement to be complete must include an

election of the invention to be examined even though the requirement be traversed (37 CFR

1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the 7.

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a request under 37 CFR

1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sue Liu whose telephone number is 571-272-5539.

examiner can normally be reached on M-F 9am-3pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Paras can be reached on 571-272-4517. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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MY-CHAUT. TRAN PATENT EXAMINER